

## Contents Volume 149

### Regular Letters

Multiple active spreading centres in the hot North Fiji Basin (Southwest Pacific): a possible model for Archaean seafloor dynamics? Y. Lagabriele, J. Goslin, H. Martin, J.-L. Thirot and J.-M. Auzende . . . . .	1
Continents as lithological icebergs: the importance of buoyant lithospheric roots D.H. Abbott, R. Drury and W.D. Mooney. . . . .	15
On the structure and mechanical behaviour of the extending lithosphere in the Baikal Rift from gravity modelling C. Petit, E. Burov and J. Déverchère . . . . .	29
Asymmetry in the reversal rate before and after the Cretaceous Normal Polarity Superchron P.L. McFadden and R.T. Merrill. . . . .	43
Along-axis dynamic topography constrained by major-element chemistry P. Lecroart, A. Cazenave, Y. Ricard, C. Thoraval and D.G. Pyle . . . . .	49
Raman spectra of phase E at various pressures and temperatures with geophysical implications L.-g. Liu, T.P. Mernagh, C.C. Lin and T. Irifune . . . . .	57
Melt generation models for the Auckland volcanic field, New Zealand: constraints from U-Th isotopes Y. Huang, C. Hawkesworth, P. van Calsteren, I. Smith and P. Black . . . . .	67
Enhanced scavenging of $^{231}\text{Pa}$ relative to $^{230}\text{Th}$ in the South Atlantic south of the Polar Front: Implications for the use of the $^{231}\text{Pa}/^{230}\text{Th}$ ratio as a paleoproductivity proxy H.J. Walter, M.M. Rutgers van der Loeff and H. Hoeltzen. . . . .	85
Direct observation of the evolution of a seafloor 'black smoker' from vapor to brine K.L. Von Damm, L.G. Buttermore, S.E. Oosting, A.M. Bray, D.J. Fornari, M.D. Lilley and W.C. Shanks, III . . . . .	101
Springwater chloride ion anomaly prior to a $M_L = 5.2$ Pyrenean earthquake J.P. Toutain, M. Munoz, F. Poitrasson and A.C. Lienard . . . . .	113
A 200 kyr record of cosmogenic radionuclide production rate and geomagnetic field intensity from $^{10}\text{Be}$ in globally stacked deep-sea sediments M. Frank, B. Schwarz, S. Baumann, P.W. Kubik, M. Suter and A. Mangini. . . . .	121
Author Index Volume 149 . . . . .	131
Contents Volume 149. . . . .	133



